

ABSTRACT

A premixed combustion gas burner having separated fire hole units including a tube-shaped burner whose front face is opened and inner portion is of a hollow tubular shape so that the whole fire hole units of the burner can be separated to thus prevent deformation due to thermal expansion, in which fire hole units each having a number of fire holes formed at a predetermined distance from one another are disposed in both edge lines and the inner portion on the upper end face, and loaders each having a predetermined space are formed between the fire hole units; and a plate-shaped burner which is made of a plate-shaped material having a pin structure formed on the bottom thereof so as to be mounted on the loaders formed in the tube-shaped burner, in which fire hole units having a number of fire holes formed at a predetermined distance are disposed in the form of a slit along both the edge lines of the upper end face. Here, the number of fire holes forming the fire hole units of the tube-shaped burner and the plate-shaped burner are formed with a uniform size by a press, and a cooling water tube is disposed to penetrate the fire holes through fitting holes formed on the lateral surface of the tube-shaped burner and fitting holes formed on the pin-structure formed on the bottom of the plate-shaped burner, in correspondence to the fitting holes of the tube-shaped burner.